IN THE CLAIMS:

1. (Currently Amended) An apparatus for retrofitting a section of drill pipe with a transmission line, the apparatus comprising:

an insert for insertion into at least one of the box end and the pin end of a section of drill pipe, wherein the insert comprises a mount portion and a slide portion;

a transmission element mounted in the slide portion; and

a biasing element for effecting a bias between the mount portion and the slide portion:

wherein the insert is inserted into the inside diameter of a section of drill pipe and narrows a central bore of the drill pipe.

2. (Canceled)

- 3. (Original) The apparatus of claim 1, further comprising a channel traveling through at least one of the slide portion and the mount portion to accommodate a transmission line.
- 4. (Original) The apparatus of claim 3, further comprising a transmission line routed through the channel, wherein the transmission line is configured to flex when the slide portion slides with respect to the mount portion.
- 5. (Currently Amended) The apparatus of claim 1, wherein the biasing element is selected from the group consisting of an elastomeric material, a spring, <u>and</u> compressed gas, <u>or a combination</u> thereof.
- 6. (Original) The apparatus of claim 1, wherein: the slide portion is substantially cylindrical in shape; and the slide portion is characterized by an annular mating surface configured to contact a corresponding annular mating surface.

- 7. (Original) The apparatus of claim 6, wherein: the transmission element is substantially annular; and the transmission element is mounted in the annular mating surface.
- 8. (Original) The apparatus of claim 1, further comprising a stop mechanism adapted to prevent the slide portion from sliding more than a specified distance with respect to the mount portion.
- 9-20. (Canceled)
- 21. (New) The apparatus of claim 1, wherein the insert is smoothed.
- 22. (New) The apparatus of claim 1, wherein the insert comprises a flange adapted to sit against a shoulder of the drill pipe.
- 23. (New) The apparatus of claim 1, wherein the insert is radially expandable.
- 24. (New) The apparatus of claim 1, wherien the insert comprises a tapered end that includes one of more gaps to allow for expansion.
- 25. (New) The apparatus of claim 1, wherein the apparatus comprises a plurality of baising elements opposed from one another between the slide and mounting portions.
- 26. (New) An apparatus for retrofitting a section of drill pipe with a transmission line, the apparatus comprising:
- a pin end insert comprising a first transmission element, wherein the pin end insert is insertable into an inner diameter of the pin end of a section of drill pipe and narrows a central bore of the drill pipe; and

a box end insert comprising a second transmission element,
wherein the box end insert is insertable into a shoulder of the box end of a section of drill
pipe.

- 27. (New) The apparatus of claim 26, wherein at least one of the pin end insert and the box end insert further comprises a mount portion and a slide portion.
- 28. (New) The apparatus of claim 26, further comprising a biasing element for effecting a bias between the mount portion and the slide portion.
- 29. (New) The apparatus of claim 27, wherein at least one of the first and second transmission elements is mounted to the slide portion.
- 30. (New) The apparatus of claim 27, further comprising a channel traveling through at least one of the slide portion and the mount portion to accommodate a transmission line.
- 31. (New) The apparatus of claim 29, further comprising a transmission line routed through the channel, wherein the transmission line is configured to flex when the slide portion slides with respect to the mount portion.